

9th Class 2016

Math (Science)	Group-II	Paper-I
Time: 20 Minutes	(Objective Type)	Max Marks: 15

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- $\frac{1}{a-b} - \frac{1}{a+b} = \text{-----}$.

(a) $\frac{2a}{a^2 - b^2}$

(b) $\frac{2b}{a^2 - b^2} \checkmark$

(c) $\frac{-2a}{a^2 - b^2}$

(d) $\frac{-2b}{a^2 - b^2}$

2- Which order pair satisfy the equation $y = 2x$:

(a) (1, 2) \checkmark

(b) (2, 1)

(c) (2, 2)

(d) (1, 1)

3- If $\begin{vmatrix} 2 & 6 \\ 3 & x \end{vmatrix} = 0$, then "x" equal to:

(a) 6

(b) -9

(c) -6

(d) 9 \checkmark

4- Mid-point of the points (2, -2) and (-2, 2) is:

(a) (2, 2)

(b) (0, 0) \checkmark

(c) (-2, 2)

(d) (1, 1)

5- In a triangle, there can be ---- right angle.

(a) 1 \checkmark

(b) 2

(c) 3

(d) None of these

6- Parallelogram is divided by its diagonals into ---- triangles of equal area.

(a) 2 \checkmark

(b) 3

(c) 4

(d) 5

- 7- Bisection means to divide into ---- equal parts.
(a) 2 ✓ (b) 3
(c) 4 (d) None of these
- 8- The medians of a triangle cut each other in the ratio ----.
(a) 4 : 1 (b) 3 : 1
(c) 2 : 1 ✓ (d) 1 : 1
- 9- The solution set of $|x - 4| = -4$ is ---- .
(a) $\{-4\}$ (b) $\{4, -4\}$
(c) $\{0\}$ (d) $\{\}$ ✓
- 10- Similar triangles are of same shape but ---- sides.
(a) Same (b) Different ✓
(c) Both A and B (d) None of these
- 11- Congruent triangles are ---- .
(a) Parallel (b) Similar ✓
(c) Different (d) None of these
- 12- Point $(-3, -3)$ lies in the quadrant:
(a) III ✓ (b) II
(c) I (d) IV
- 13- Imaginary part of $-i(3i + 2)$ is ---- .
(a) -2 ✓ (b) 2
(c) 3 (d) -3
- 14- H.C.F of $x - 2$ and $x^2 + x - 6$ is:
(a) $x^2 + x - 6$ (b) $x + 3$
(c) $x - 2$ ✓ (d) $x + 2$
- 15- The logarithm of any number of itself as a base is ----.
(a) 1 ✓ (b) 0
(c) -1 (d) 10